Bro An Open Source Network Intrusion Detection System

Computer Security: Protecting Digital Resources
A GUI Framework for Detecting Intrusions Using Bro IDS
First International Conference, ACeS 2019, Penang, Malaysia, July 30 – August 1, 2019, Revised Selected Papers
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ICCWS 2019 14th International Conference on Cyber Warfare and Security
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Concepts and Techniques
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Understand the Role of Cybersecurity, Its Importance and Modern Techniques Used by

Cybersecurity Professionals (English Edition)
Proceeding of Fifth International Conference on Microelectronics, Computing and Communication Systems
International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018
Artificial Intelligence in Theory and Practice
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Third International Conference, TrustBus 2006,

Krakow, Poland, September 4-8, 2006, Proceedings
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Advanced Computer and Communication Engineering Technology
Introduction to Computer Networks and Cybersecurity
Kommunikation in Verteilten Systemen (KiVS) 2007

AMARIS LOPEZ

Computer Security: Protecting Digital Resources
Springer
This timely text/reference presents a detailed introduction to the essential aspects of computer network forensics. The book considers not only how to uncover information hidden in email messages, web pages and web servers, but also what this reveals about the functioning of the Internet and its core protocols. This, in turn, enables the identification of shortcomings and highlights where improvements can be made for a more secure network. Topics and features: provides learning objectives in every chapter,

and review questions throughout the book to test understanding ; introduces the basic concepts of network process models, network forensics frameworks and network forensics tools; discusses various techniques for the acquisition of packets in a network forensics system, network forensics analysis, and attribution in network forensics; examines a range of advanced topics, including botnet, smartphone, and cloud forensics; reviews a number of freely available tools for performing forensic activities.

A GUI Framework for Detecting Intrusions Using Bro IDS

Springer Nature

This book gathers the proceedings of the International Conference on Advanced Information Technology, Services and Systems (AIT2S-18), which was held in Mohammedia, Morocco on October 17–18, 2018. Presenting the latest research in the fields of Modern Information Engineering Concepts and Communication Systems, the book will also be of interest to those working in emerging fields such as Advances in Networking and Sensor Networks, Advances in Software Engineering,

Multimedia Systems, E-learning, Big Data, Intelligent Information Systems and Advances in Natural Language Processing. Springer Nature For more than 20 years, Network World has been the premier provider of information, intelligence and insight for network and IT executives responsible for the digital nervous systems of large organizations. Readers are responsible for designing, implementing and managing the voice, data and video systems their companies use to support everything from business critical applications to employee collaboration and electronic commerce. **First International Conference, ACeS 2019, Penang, Malaysia, July 30 – August 1, 2019, Revised Selected Papers** LAP Lambert Academic Publishing If a network is not secure, how valuable is it? Introduction to Computer Networks and Cybersecurity takes an integrated approach to networking and cybersecurity, highlighting the interconnections so that you quickly understand the complex design issues in modern networks. This full-color book uses a wealth of examples and illustrations to effective **Advances in Cyber**

Security
Springer
Surveys the best practices for all aspects of system administration , covering such topics as storage management, email, Web hosting, performance analysis, virtualization, DNS, security, and configuration management.
ICCWS 2019 14th International Conference on Cyber Warfare and Security
Springer
This book has a collection of articles written by Big Data experts to describe some of the cutting-edge methods and applications from their respective areas of interest, and provides the reader with a detailed overview of the field of Big Data Analytics as it is practiced today. The chapters cover technical aspects of key areas that generate and use Big Data such as management and finance; medicine and healthcare; genome, cytome and microbiome; graphs and networks; Internet of Things; Big Data standards; bench-marking of systems; and others. In addition to different applications, key algorithmic approaches such as graph partitioning, clustering and finite mixture modelling of high-dimensional data are also covered. The varied collection of themes in this volume introduces the

reader to the richness of the emerging field of Big Data Analytics.

Network and System Security Pearson Education

Network security is the provision made in an underlying computer network or rules made by the administrator to protect the network and its resources from unauthorized access. To make network secure, an Intrusion detection system is one of the efficient system. Bro is an open source Network Intrusion Detection System that monitors network traffic, check for suspicious activities and notifies the system or network administrator. Some Policy Scripts are already built in Bro IDS. In this work, various types of live traffic is captured and analyzed. Some new policy scripts are built to filter out the needed packets from the captured traffic. Also, a Graphical User Interface is designed to eliminate the need of writing of commands at terminal and making it easy for users to create the scripts and run them on captured traffic. A GUI framework is integrated in Bro that analyzes and filters the traced network traffic.

MCCS 2020

Springer Nature

Cybersecurity for Beginners

KEY FEATURES

● In-depth coverage of

cybersecurity concepts, vulnerabilities and detection mechanism. ● Cutting-edge coverage on frameworks, Intrusion detection methodologies and how to design cybersecurity infrastructure. ● Access to new tools, methodologies, frameworks and countermeasures developed for cybersecurity. DESCRIPTION Cybersecurity Fundamentals starts from the basics of data and information, includes detailed concepts of Information Security and Network Security, and shows the development of 'Cybersecurity' as an international problem. This book talks about how people started to explore the capabilities of Internet technologies to conduct crimes globally. It covers the framework for analyzing cyber costs that enables us to have an idea about the financial damages. It also covers various forms of cybercrime which people face in their day-to-day lives and feel cheated either financially or blackmailed emotionally. The book also demonstrates Intrusion Detection Systems and its various types and characteristics for the quick detection of intrusions in our digital infrastructure. This book elaborates on various traceback schemes and their classification as per the

utility. Criminals use stepping stones to mislead tracebacking and to evade their detection. This book covers stepping-stones detection algorithms with active and passive monitoring. It also covers various shortfalls in the Internet structure and the possible DDoS flooding attacks that take place nowadays. WHAT YOU WILL LEARN ● Get to know Cybersecurity in Depth along with Information Security and Network Security. ● Build Intrusion Detection Systems from scratch for your enterprise protection. ● Explore Stepping Stone Detection Algorithms and put into real implementation. ● Learn to identify and monitor Flooding-based DDoS Attacks. WHO THIS BOOK IS FOR This book is useful for students pursuing B.Tech.(CS)/M.Tech.(CS),B.Tech.(IT)/M.Tech.(IT), B.Sc (CS)/M.Sc (CS), B.Sc (IT)/M.Sc (IT), and B.C.A/M.C.A. The content of this book is important for novices who are interested to pursue their careers in cybersecurity. Anyone who is curious about Internet security and cybercrime can read this book too to enhance their knowledge. TABLE OF CONTENTS 1. Introduction to Cybersecurity 2. Cybersecurity Landscape

and its Challenges 3. Information Security and Intrusion Detection System 4. Cybercrime Source Identification Techniques 5. Stepping-stone Detection and Tracing System 6. Infrastructural Vulnerabilities and DDoS Flooding Attacks

Concepts and Techniques

John Wiley & Sons

This book constitutes the proceedings of the 17th International Symposium on Research in Attacks, Intrusions and Defenses, RAID 2014, held in Gothenburg, Sweden, in September 2014. The 22 full papers were carefully reviewed and selected from 113 submissions, and are presented together with 10 poster abstracts. The papers address all current topics in computer security, including network security, authentication , malware, intrusion detection, browser security, web application security, wireless security, vulnerability analysis.

A Review of Industry Practices and a Practical Guide to Risk Management Teams

Springer

The present book includes extended and revised versions of a set of selected papers presented at the 17th International Joint Conference on e-Business and Telecommunic

ations, ICETE 2020, held as an online web-based event (due to the COVID-19 pandemic) in July 2020.ICETE 2020 is a joint conference aimed at bringing together researchers, engineers and practitioners interested in information and communication technologies, including data communication networking, e-business, optical communication systems, security and cryptography, signal processing and multimedia applications, and wireless networks and mobile systems.The 10 full papers included in the volume were carefully selected from the 30 submissions accepted to participate in the conference.

6th EAI International Conference, HealthyIoT 2019, Braga, Portugal, December 4–6, 2019, Proceedings

Springer-Verlag

This book constitutes the proceedings of the 9th International Conference on Network and System Security, NSS 2015, held in New York City, NY, USA, in November 2015. The 23 full papers and 18 short papers presented were carefully reviewed and selected from 110 submissions. The papers are organized in topical sections on wireless security and privacy; smartphone security;

systems security; applications security; security management; applied cryptography; cryptosystems ; cryptographic mechanisms; security mechanisms; mobile and cloud security; applications and network security. 17th International Conference on E-Business and Telecommunications, ICETE 2020, Online Event, July 8–10, 2020, Revised Selected Papers Jones & Bartlett Publishers Intensively hands-on training for real-world network forensics Network Forensics provides a uniquely practical guide for IT and law enforcement professionals seeking a deeper understanding of cybersecurity. This book is hands-on all the way—by dissecting packets, you gain fundamental knowledge that only comes from experience. Real packet captures and log files demonstrate network traffic investigation, and the learn-by-doing approach relates the essential skills that traditional forensics investigators may not have. From network packet analysis to host artifacts to log analysis and beyond, this book emphasizes the critical techniques that bring evidence to light. Network forensics is a growing field, and is

becoming increasingly central to law enforcement as cybercrime becomes more and more sophisticated. This book provides an unprecedented level of hands-on training to give investigators the skills they need. Investigate packet captures to examine network communications Locate host-based artifacts and analyze network logs Understand intrusion detection systems—and let them do the legwork Have the right architecture and systems in place ahead of an incident Network data is always changing, and is never saved in one place; an investigator must understand how to examine data over time, which involves specialized skills that go above and beyond memory, mobile, or data forensics. Whether you're preparing for a security certification or just seeking deeper training for a law enforcement or IT role, you can only learn so much from concept; to thoroughly understand something, you need to do it. Network Forensics provides intensive hands-on practice with direct translation to real-world application. **First International Workshop, MLHat 2020, San Diego, CA, USA, August 24,**

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Springer Nature
This book presents various areas related to cybersecurity. Different techniques and tools used by cyberattackers to exploit a system are thoroughly discussed and analyzed in their respective chapters. The content of the book provides an intuition of various issues and challenges of cybersecurity that can help readers to understand and have awareness about it. It starts with a very basic introduction of security, its varied domains, and its implications in any working organization; moreover, it will talk about the risk factor of various attacks and threats. The concept of privacy and anonymity has been taken into consideration in consecutive chapters. Various topics including, The Onion Router (TOR) and other anonymous services, are precisely discussed with a practical approach. Further, chapters to learn the importance of preventive measures such as intrusion detection system (IDS) are also covered. Due to the existence of severe cyberattacks, digital forensics is a must for investigating the crime and to take precautionary measures for the future occurrence of

such attacks. A detailed description of cyberinvestigation is covered in a chapter to get readers acquainted with the need and demands. This chapter deals with evidence collection from the victim's device and the system that has importance in the context of an investigation. Content covered in all chapters is foremost and reported in the current trends in several journals and cybertalks. The proposed book is helpful for any reader who is using a computer or any such electronic gadget in their daily routine. The content of the book is prepared to work as a resource to any undergraduate and graduate-level student to get aware about the concept of cybersecurity, various cyberattacks, and threats in the security. In addition to that, it aimed at assisting researchers and developers to build a strong foundation for security provisioning in any newer technology which they are developing.

Understand the Role of Cybersecurity, Its Importance and Modern Techniques Used by Cybersecurity Professionals (English Edition)

Springer Science & Business Media

This book, written by leaders in the protection field of critical infrastructures, provides an extended

overview of the technological and operative advantages together with the security problems and challenges of the new paradigm of the Internet of Things in today's industry, also known as the Industry Internet of Things (IIoT). The incorporation of the new embedded technologies and the interconnected networking advances in the automation and monitoring processes, certainly multiplies the functional complexities of the underlying control system, whilst increasing security and privacy risks. The critical nature of the application context and its relevance for the well-being of citizens and their economy, attracts the attention of multiple, advanced attackers, with stealthy abilities to evade security policies, ex-filter information or exploit vulnerabilities. Some real-life events and registers in CERTs have already clearly demonstrated how the control industry can become vulnerable to multiple types of advanced threats whose focus consists in hitting the safety and security of the control processes. This book, therefore, comprises a detailed spectrum of research papers with highly analytical

content and actuation procedures to cover the relevant security and privacy issues such as data protection, awareness, response and resilience, all of them working at optimal times. Readers will be able to comprehend the construction problems of the fourth industrial revolution and are introduced to effective, lightweight protection solutions which can be integrated as part of the new IIoT-based monitoring ecosystem.

Proceeding of Fifth International Conference on Microelectronics, Computing and Communication Systems Springer

Die 15. GI/ITG-Fachtagung "Kommunikation in Verteilten Systemen (KiVS 2007)" befasst sich mit einer großen Vielfalt innovativer und zukunftsorientierter Fragen: Overlay- und Peer to Peer-Netze, Sensornetze, mobile Ad Hoc-Netze, Web Services. Die KiVS 2007 dient der Standortbestimmung aktueller Entwicklungen, der Präsentation laufender Forschungsarbeiten und der Diskussion zukunftsträchtiger Ansätze für die Kommunikation in verteilten Systemen.

International Conference on Intelligent Data Communication Technologies and Internet of Things (ICICI) 2018

Springer This book provides a concise yet comprehensive overview of computer and Internet security, suitable for a one-term introductory course for junior/senior undergrad or first-year graduate students. It is also suitable for self-study by anyone seeking a solid footing in security – including software developers and computing professionals, technical managers and government staff. An overriding focus is on brevity, without sacrificing breadth of core topics or technical detail within them. The aim is to enable a broad understanding in roughly 350 pages. Further prioritization is supported by designating as optional selected content within this. Fundamental academic concepts are reinforced by specifics and examples, and related to applied problems and real-world incidents. The first chapter provides a gentle overview and 20 design principles for security. The ten chapters that follow provide a framework for understanding computer and Internet security. They regularly refer back to the principles, with supporting examples. These principles are the conceptual counterparts of security-related error patterns that

have been recurring in software and system designs for over 50 years. The book is “elementary” in that it assumes no background in security, but unlike “soft” high-level texts it does not avoid low-level details, instead it selectively dives into fine points for exemplary topics to concretely illustrate concepts and principles. The book is rigorous in the sense of being technically sound, but avoids both mathematical proofs and lengthy source-code examples that typically make books inaccessible to general audiences. Knowledge of elementary operating system and networking concepts is helpful, but review sections summarize the essential background. For graduate students, inline exercises and supplemental references provided in per-chapter endnotes provide a bridge to further topics and a springboard to the research literature; for those in industry and government, pointers are provided to helpful surveys and relevant standards, e.g., documents from the Internet Engineering Task Force (IETF), and the U.S. National Institute of Standards and Technology. Artificial Intelligence in Theory and Practice CRC Press

Digital forensics deals with the acquisition, preservation, examination, analysis and presentation of electronic evidence. Practically every crime now involves some digital evidence; digital forensics provides the techniques and tools to articulate this evidence. This book describes original research results and innovative applications in the emerging discipline of digital forensics. In addition, it highlights some of the major technical and legal issues related to digital evidence and electronic crime investigations. **Proceedings of ICOCOE 2015** Springer Science & Business Media This book constitutes selected papers from the First International Workshop on Deployable Machine Learning for Security Defense, MLHat 2020, held in August 2020. Due to the COVID-19 pandemic the conference was held online. The 8 full papers were thoroughly reviewed and selected from 13 qualified submissions. The papers are organized in the following topical sections: understanding the adversaries; adversarial ML for better security; threats on networks. Deployable Machine Learning for Security

Defense Springer This book presents high-quality papers from the Fifth International Conference on Microelectronics, Computing & Communication Systems (MCCS 2020). It discusses the latest technological trends and advances in MEMS and nanoelectronics, wireless communication, optical communication, instrumentation, signal processing, image processing, bioengineering, green energy, hybrid vehicles, environmental science, weather forecasting, cloud computing, renewable energy, RFID, CMOS sensors, actuators, transducers, telemetry systems, embedded systems and sensor network applications. It includes papers based on original theoretical, practical and experimental simulations, development, applications, measurements and testing. The applications and solutions discussed here provide excellent reference material for future product development. International Joint Conference SOCO'14-CISIS'14-ICEUTE'14 Springer Today, society is faced with numerous internet schemes, fraudulent scams, and means of identity theft that threaten our safety and our peace of mind. Computer

Security: Protecting Digital Resources provides a broad approach to computer-related crime, electronic commerce, corporate networking, and Internet security, topics that have become increasingly important as more and more threats are made on our internet environment. This book is oriented toward the average computer user, business professional, government worker, and those within the education community, with the expectation that readers can learn to use the network with some degree of safety and security. The author places emphasis on the numerous vulnerabilities and threats that are inherent in the Internet environment. Efforts are made to present techniques and suggestions to avoid identity theft and fraud. Readers will gain a clear insight into the many security issues facing the e-commerce, networking, web, and internet environments, as well as what can be done to keep personal and business information secure.

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